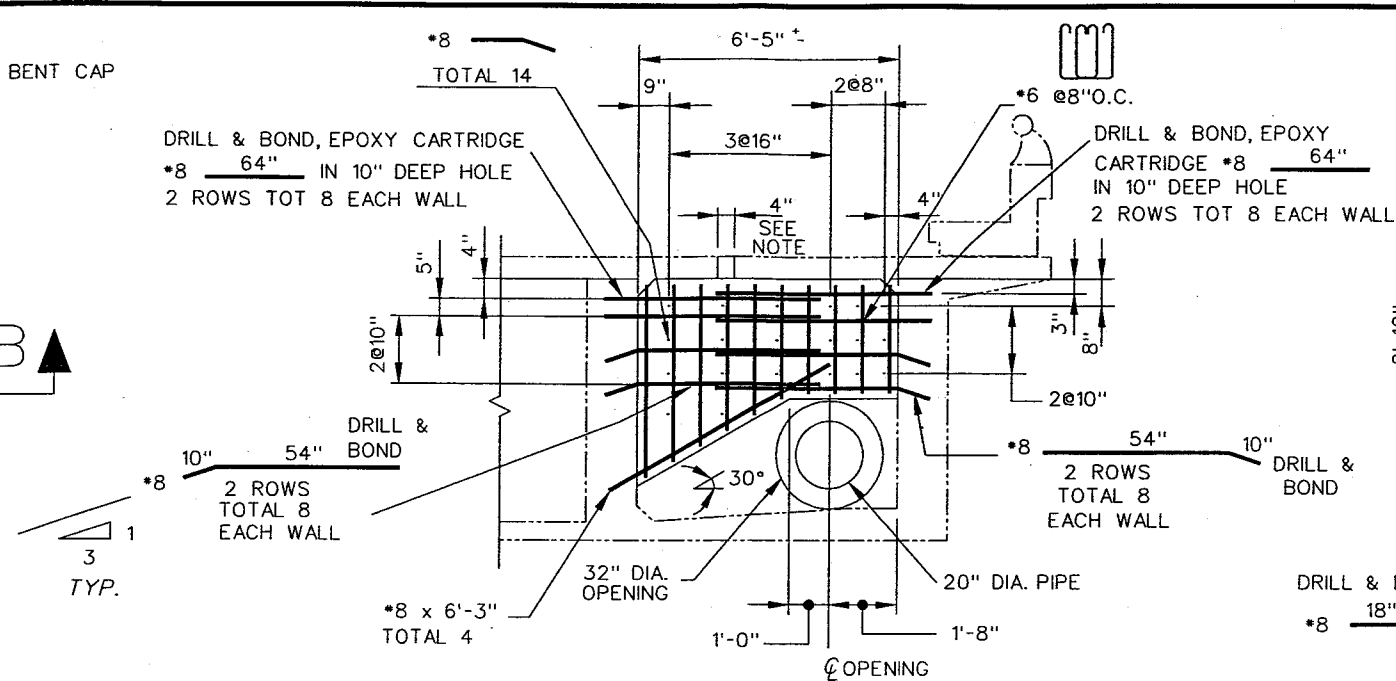
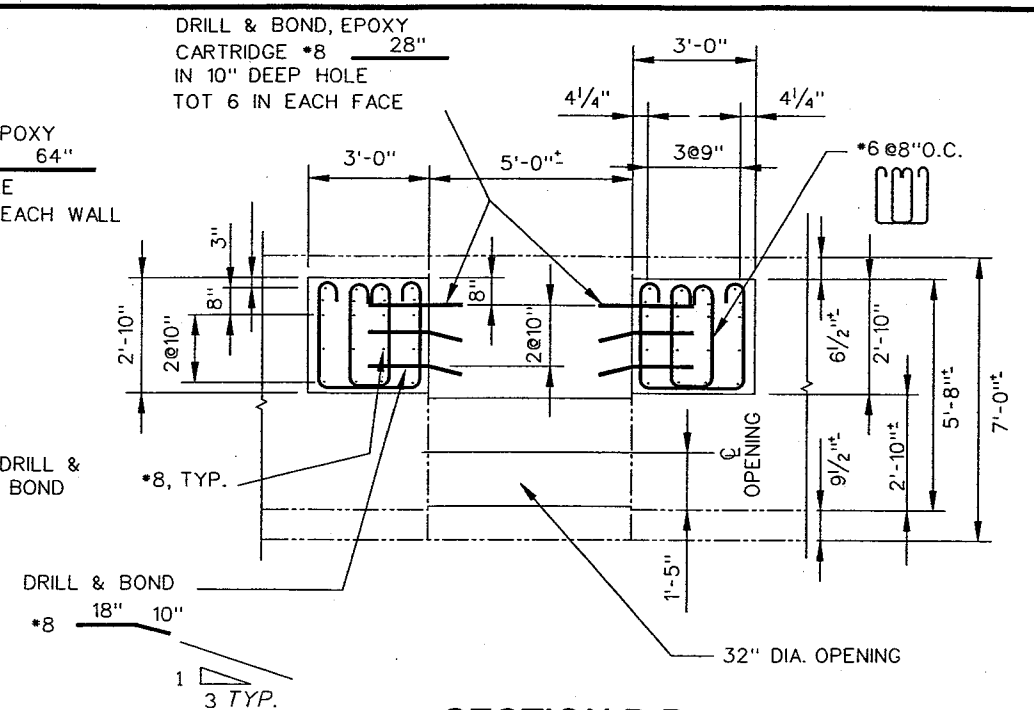


PART PLAN AT BENT CAP



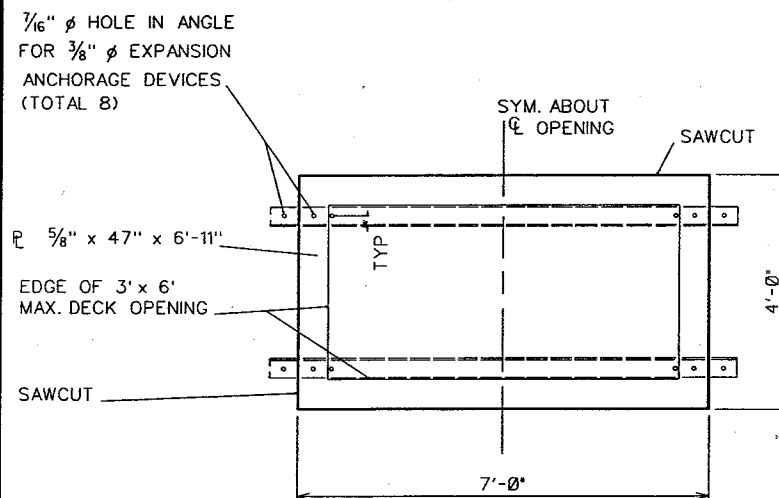
SECTION A-A



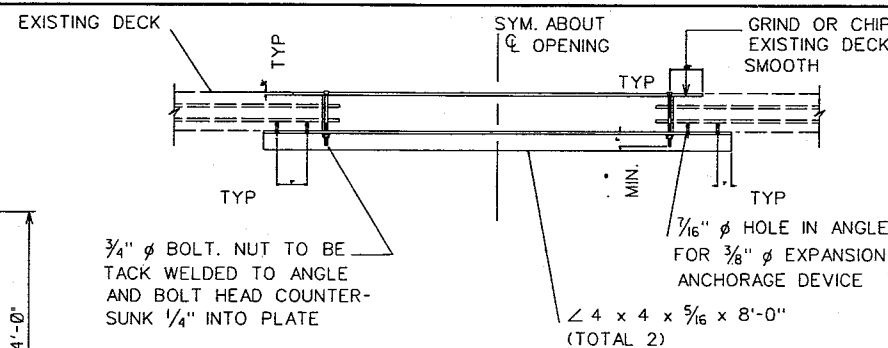
SECTION B-B

NOTE: 4" HOLES ARE OPTIONAL. THE CONTRACTOR SHALL NOT CUT THE EXISTING REINF. IN THE DECK.

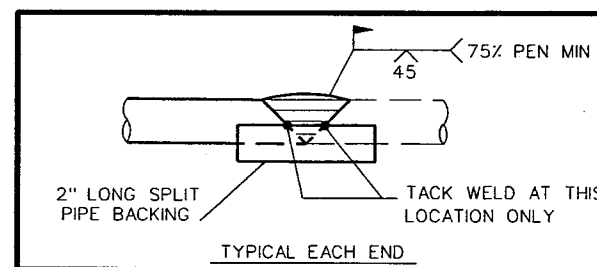
## REINFORCEMENT AROUND UTILITY OPENINGS



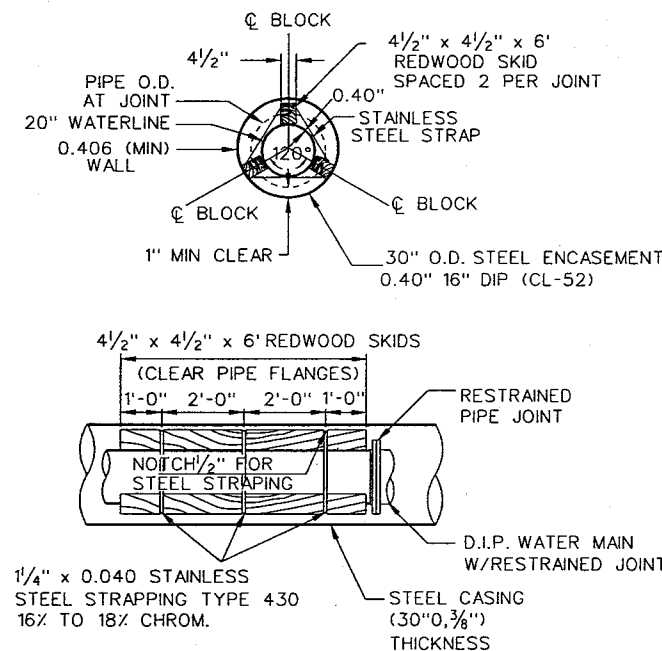
PLAN



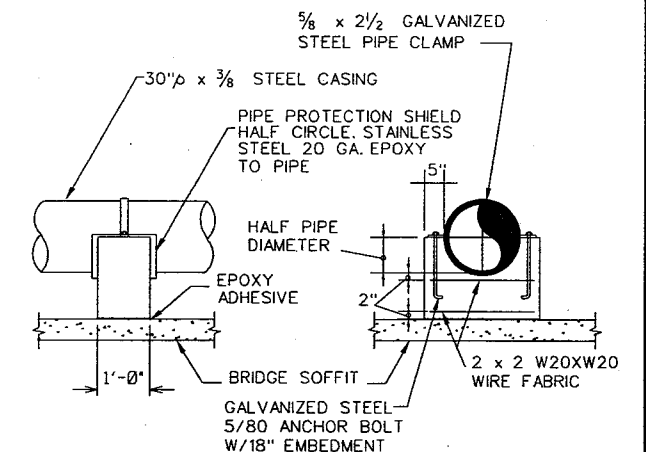
TEMPORARY DECK COVER PLATE



DECK CLOSURE



CARRIER PIPE INSTALLATION DETAIL



CONCRETE SUPPORT DETAIL

IF SHEET IS LESS THAN 24"x36" IT IS A REDUCED PRINT. SCALE REDUCED ACCORDINGLY.

RECORD  
DRAWING

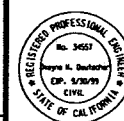
## DECK OPENING

NOTE: REPLACE DECK REINF. EACH DIRECTION. BUTT WELD TO EXISTING.

DECK CLOSURE

**URS** URS Consultants, Inc.  
CONSULTING ENGINEERS  
SACRAMENTO CALIFORNIA

JOB No. 62370



NEWMARK OU REMEDIAL DESIGN  
NEWMARK GROUNDWATER  
CONTAMINATION SUPERFUND SITE  
SOUTH PLANT TRANSMISSION PIPELINE

APPROVED: J. STEJSKAL, DIRECTOR: ENGINEERING CONSTRUCTION-MAINTENANCE  
CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

MOUNTAIN VIEW AVE  
OVERCROSSING  
DETAILS

Scale: 1" = 10' Date: 9/25/97 Dwg. No.: 25

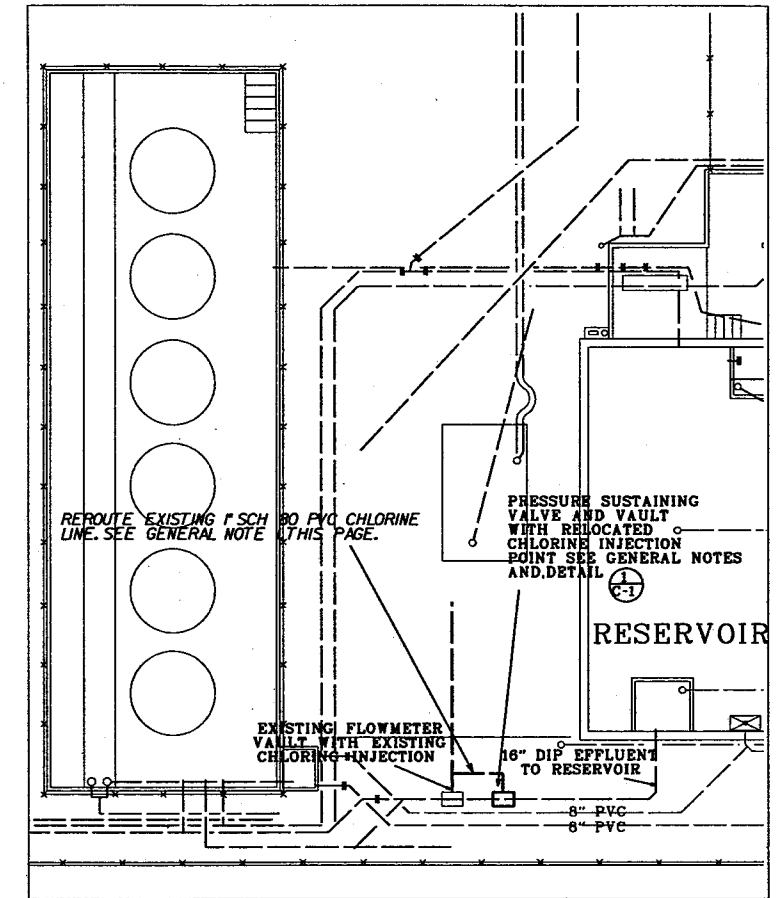
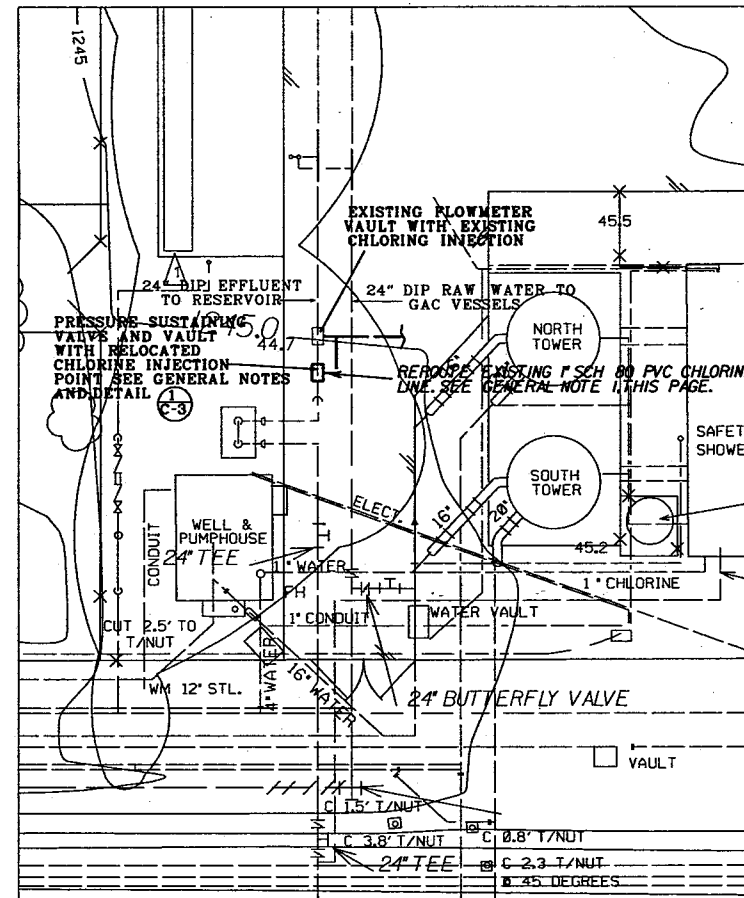
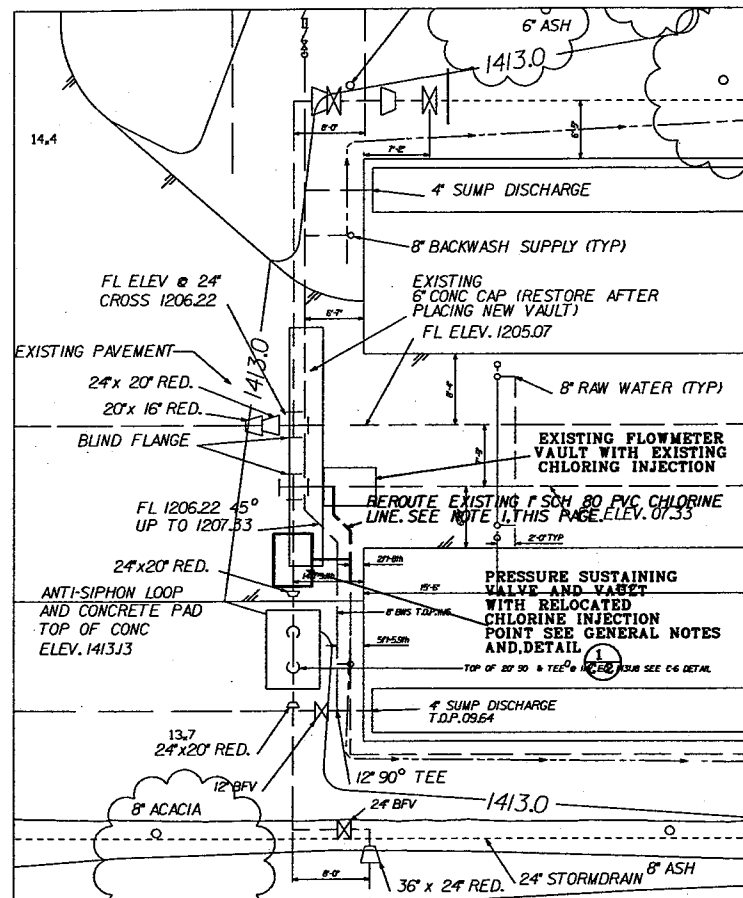
**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX**

**NEWMARK, WATERMAN, AND 17TH STREET  
PLANT RETROFITS**

**PREPARED BY  
URS Greiner Woodward-Clyde  
SACRAMENTO, CA.**

**MAY 2001**

**RECORD  
DRAWING**

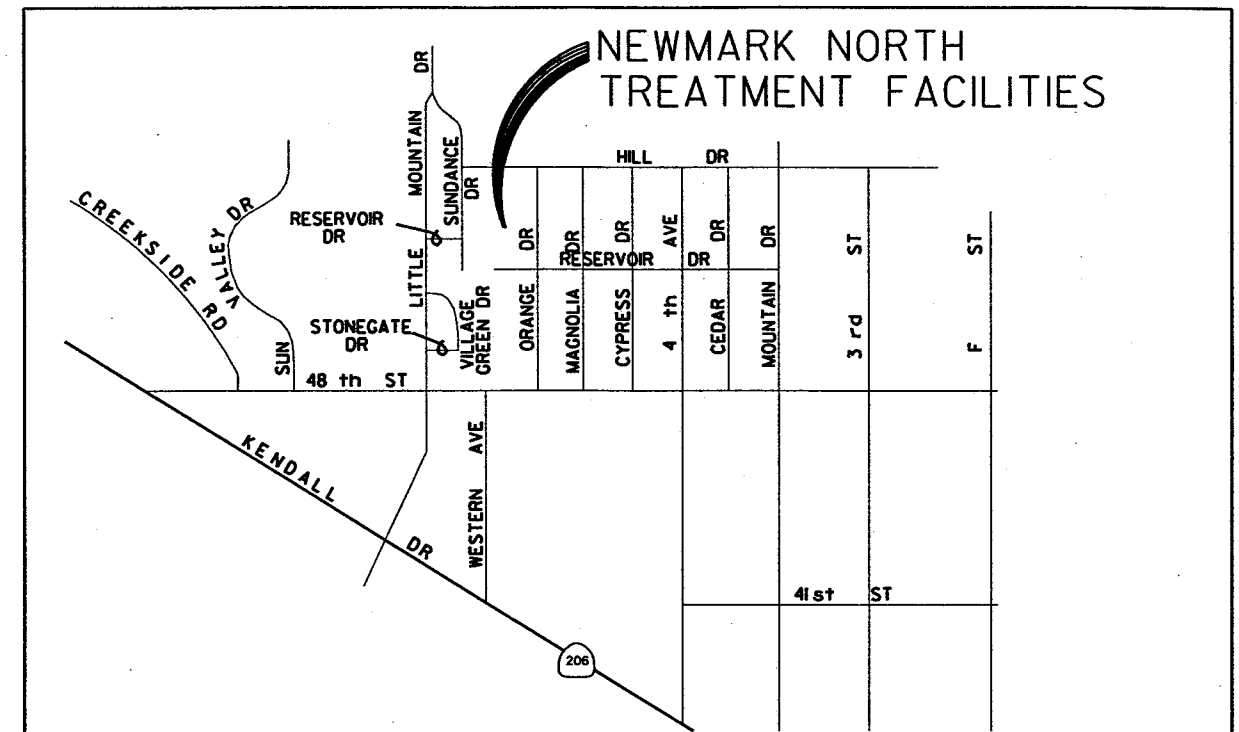


GENERAL NOTES

1. Reroute existing 1" SCH 80 PVC chlorine solution lines from existing flow meter vaults to new pressure sustaining valve vaults using new SCH 80 PVC pipe and fittings. Install new chlorine injectors per detail 2/C1 at each location.
2. Use open bottom "UTILITY VAULT SERIES 1100" precast concrete vault or approved equal for the Street Plant. Use Open bottom "Brooks W510" precast concrete vault or approved equal for the North Plant and Waterman Plant.
3. Apply 2 coats of coal tar paint to all exposed metal surfaces inside and outside of each vault (excepting valve) including bolts and restraints. Do not coat threads.
4. Ductile Iron Pipe (DIP) shall be AWWA C151, Type 1, Class 50. Fittings shall conform to AWWA C110. Pipe and fittings shall be equipped with flanges or mechanical joints conforming to AWWA C111 as indicated. Pipe and fittings shall have a cement mortar lining conforming to AWWA C104.
5. Test new piping per SBMWD Standards. Repair failing lines and retest until passed.
6. Install new pressure switch per detail 2/C2 in existing C12 injection point and new signal cables back to telemetry/control panel. Provide cable of sufficient length to allow connections to control panel by others. Install per NEC and provide pull boxes at all changes in direction.

5/01	RECORD DRAWING				DESIGNED BY: PS	URS Greiner Woodward Clyde SACRAMENTO CALIFORNIA	NEWMARK OU REMEDIAL DESIGN NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE NORTH, SOUTH, AND 17TH STREET PLANTS	TREATMENT PLANT PARTIAL SITE PLANS		
					DRAWN BY: JCB					
					CHECKED BY: DHD					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	JOB NO.: 41-F2501500		NO SCALE	Date: 2/2000	Dwg. No.: G-2
REVISIONS										

# 17TH STREET PLANT TREATMENT FACILITIES



# NORTH PLANT LOCATION MAP



# WATERMAN AND 17TH STREET PLANT

## LOCATION MAP

## RECORD DRAWING

5/01	RECORD DRAWING			DESIGNED BY: PS	URS Greiner Woodward Clyde SACRAMENTO CALIFORNIA	NEWMARK OU REMEDIAL DESIGN NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE NORTH & SOUTH PLANTS	VICINITY AND LOCATION MAPS		
				DRAWN BY: JCB					
				CHECKED BY: DHD					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	JOB No. : 41-F25015000	Scale: NONE	Date: 2/2000	Dwg. No. : G-1
REVISIONS									

Technical drawing of a rectangular structure, likely a tank or container, showing a top-down view. The structure is rectangular with a central circular component. Dimensions are indicated:

- Overall width: 7' 5"
- Overall height: 4' 11"
- Inner rectangular section width: 6' 6"
- Inner rectangular section height: 4'

The central circular component has a diameter of 4' and is surrounded by a rectangular frame. The drawing includes a small detail of a pipe or fitting on the left side.

SCH 80 PVC CHLORINE SOLUTION LINE

FROM WATER SUPPLY

TO INJECTION POINT

SEE ENLARGE DETAIL FOR SOLUTION TUBE & CORPORATION COCK COMPONENTS

CL<sub>2</sub> INJECTION VALVE VAULTS; PLANTS, EFFLU. LINES ONLY

CORPORATION STOP AND INJECTION TUBE ASSEMBLY

DRILL AND TAP FOR FITTING

NEW DIP REDUCER

Test all rerouted chlorine solution lines and injector assemblies per SBMWD standards. Repair failing lines and retest until passed.

$$\frac{2}{C-1,2,3}$$

- THIS DRAWING IS  
REDUCED TO HALF-SIZE  
DO NOT SCALE

17TH STREET PRESSURE SUSTAINING VALVE AND VAULT DETAIL (1/6-2)

	5/01	RE
NO.	DATE	

5/01	RECORD DRAWING			
NO. DATE	DESCRIPTION	NO. DATE	DESCRIPTION	
REVISIONS				

DESIGNED BY: PS  
DRAWN BY: JCB  
CHECKED BY: DHD

URS Greiner Woodward Clyde  
SACRAMENTO CALIFORNIA

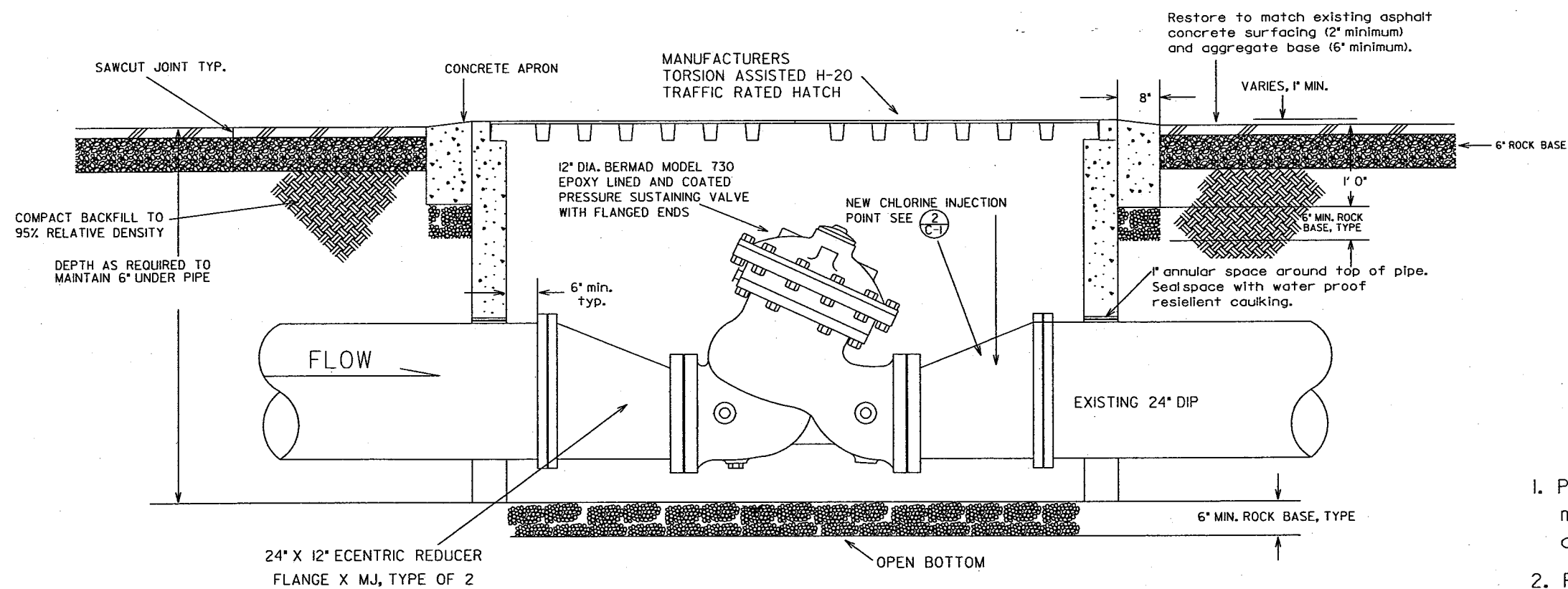
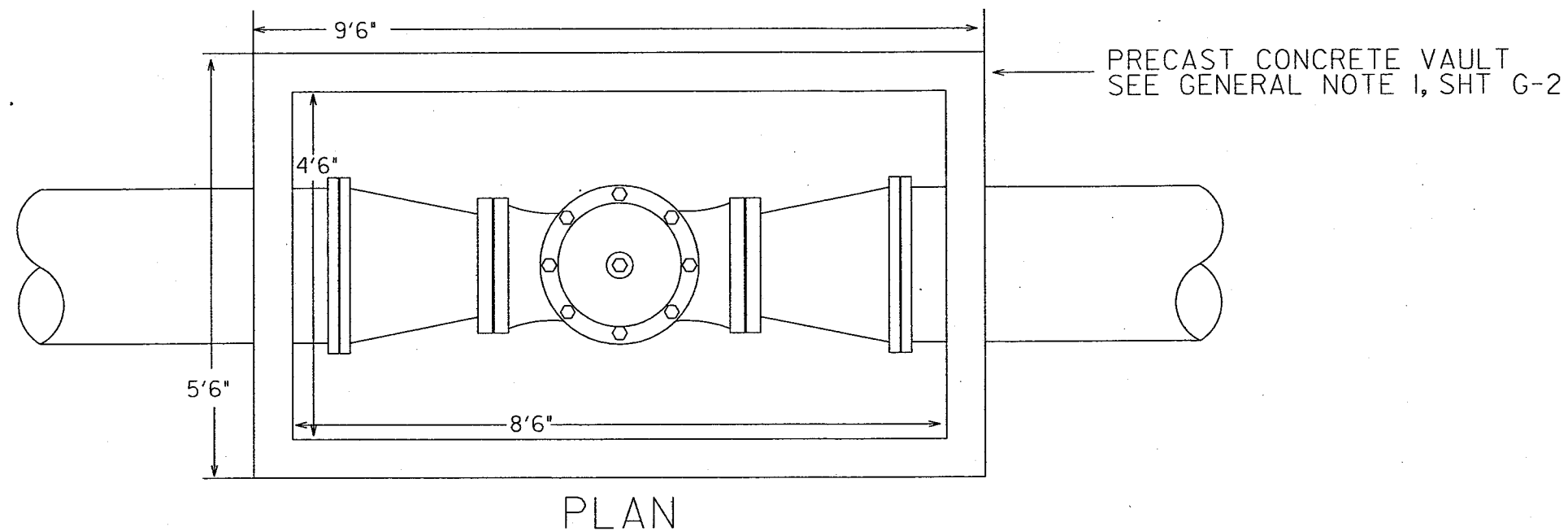
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JOB NO.: 41-F2501500

NEWMARK OU REMEDIAL DESIGN  
NEWMARK GROUNDWATER  
CONTAMINATION SUPERFUND SITE  
TREATMENT PLANT RETROFITS

17TH STREET PL  
STANDARD DETAIL

Date: 2/2000 Dwg. No.:




## NOTES

1. Place upstream valve flange a minimum of five pipe diameters downstream of existing flowmeter.
2. For vault location see partial plan sheet G-2.

THIS DRAWING IS  
REDUCED TO HALF-SIZE  
DO NOT SCALE

# WATERMAN PLANT PRESSURE SUSTAINING VALVE AND VAULT DETAIL



## RECORD DRAWING

5/01	RECORD DRAWING				DESIGNED BY: <u>PS</u>	URS Greiner Woodward Clyde  SACRAMENTO      CALIFORNIA	NEWMARK OU REMEDIAL DESIGN NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE TREATMENT PLANT RETROFITS	WATERMAN PLANT STANDARD DETAILS		
					DRAWN BY: <u>JCB</u>					
					CHECKED BY: <u>DHD</u>					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	JOB NO.: 41-F2501500		Date: 2/2000	Dwg. No.: C-3	
REVISIONS										